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TCS - 7912/65
IB - 162/65
5 May 1965
Copy # 1

MEMORANDUM FOR: Chief, Resources Division, ORR
ATTENTION : [REDACTED] R/FU 25X1A
THROUGH : Chief, Requirements Branch, Reconnaissance Group, CGS
FROM : Chief, Photographic Intelligence Division, CIA
SUBJECT : Perm Petroleum Refinery, USSR
REFERENCES : (1) ORR Requirement No. C-RR4-81,225
(2) CIA/PID Project No. 30290-4

1. This memorandum is forwarded in answer to the above mentioned requirement which requested an analysis of the petroleum refinery located near Perm, USSR. This analysis is to include the precise coordinates, areal extent, level of construction, and identification of the individual refinery units in existence or under construction, and to provide annotated photographic enlargements of the refinery.

2. Information, as requested, concerning the refinery is as follows:

a. Location - The refinery is located six nautical miles southwest of the approximate center of the city of Perm and is oriented NW/SE. The geographic coordinates of the approximate center of the refinery are 57 55N - 56 07E (See Figures 1 and 2).

b. Areal Extent - The refinery is rectangular in shape measuring approximately 7900 feet by 5300 feet and covers an area of approximately 41,800,000 square feet or 1.5 square miles.

25X1D c. Construction Status - Examination of the coverage from [REDACTED] indicates that several units have been completed. In addition, there is room within and adjacent to the refinery for further construction. Construction activity during the period of photographic coverage, [REDACTED] is discussed in section four and is shown on the annotated overlay for Figure 6.

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Declass Review by NIMA/DOD

GROUP 1
Excluded from automatic
downgrading and
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d. Level of Activity - The refinery appeared to be in operation on all photography used in this study. The thermal power plant, cooling towers, flare towers, and a number of refining units all showed evidence of some level of operation.

e. Photography Used - All available photography covering this refinery was used in this study. From this material, [REDACTED] missions were selected on the basis of having good quality photography. These are missions

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[REDACTED] The attached graphics have been arranged in chronological order.

3. The overlay accompanying Figure 5 shows the limits of the refinery and various sections within the refinery. The numbers of these sections correspond to the following key:

1. Tank farm
2. Railcar loading and unloading area
3. Thermal power plant and associated facilities
4. Unidentified area, with probable intermediate and final product storage, cooling towers, and refining or processing units
5. Administration area
6. Warehousing and maintenance shop area
7. Water treatment area with cooling towers and probable settling ponds
8. Unidentified unit consisting of several furnaces and a possible fractionating tower
9. Water treating facility
10. Shipping and warehousing area
11. Suspect processing and packaging area
12. Unidentified processing units
13. Probable pumping station
14. Tank farm with possible compressor building
15. Area containing cooling towers and one processing unit, possibly associated with lube oil refining
16. Probable lubricating oil area with three refining units and probable intermediate and final product storage
17. Large unidentified processing area with four tanks, three furnaces, and processing units still under construction
18. Flare tower
19. Tank farm
20. Probable de-salting units
21. Cracking unit
22. Distillation units
23. Intermediate and final product storage area
24. Possible treating unit

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25. Suspect combination units
26. Probable vapor recovery unit
27. Two probable cracking units
28. Unidentified processing unit consisting of two furnaces, several towers, and storage tanks
29. Flare tower
30. Probable light ends units for processing of gases from cracking units including possible alkylation and polymerization area, final and intermediate product storage, and large gas holder
31. Cooling towers and water settling ponds
32. Unidentified unit consisting of large furnace and unidentified processing facilities
33. Storage area with two buried tanks, covered basin, and probable pumphouse; NW half of area consists of possible waste gas recovery unit, gas holder, and water treatment ponds

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4. The annotated overlay for Figure 6 shows the changes that have taken place in the refinery between [REDACTED] The numbers correspond to the following key:

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3. Several probable process buildings constructed since [REDACTED] completed by [REDACTED]

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4. Refining unit consisting of a small furnace, several towers, and associated tankage constructed and apparently completed in probable lubricating oil area since [REDACTED]

25X1B

5. All measurements have been made by the CIA/PID/IB project analyst. They should be considered as approximate and must not be taken as official NPIC mensuration data compiled by the Technical Intelligence Division, NPIC.

6. The photo analyst assigned to this project was [REDACTED] who may be contacted on extension 2547 should any questions arise concerning this memorandum. This memorandum and attachments complete this requirement.

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Enclosures:

- 2 Annotated Maps
(CIA/PID/IB-P-458/65 and P-459/65)
- 4 Annotated Photos w/Overlays
(CIA/PID/IB-P-460/65 thru P-463/65)

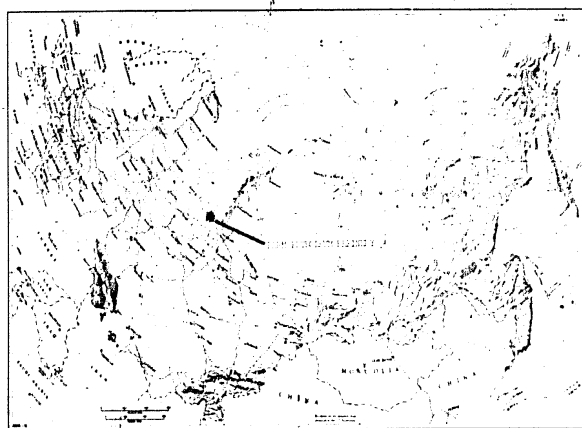
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PREPARED BY - CHEMICAL SECTION, INDUSTRIAL BRANCH,
PHOTOGRAPHIC INTELLIGENCE DIVISION, CIA

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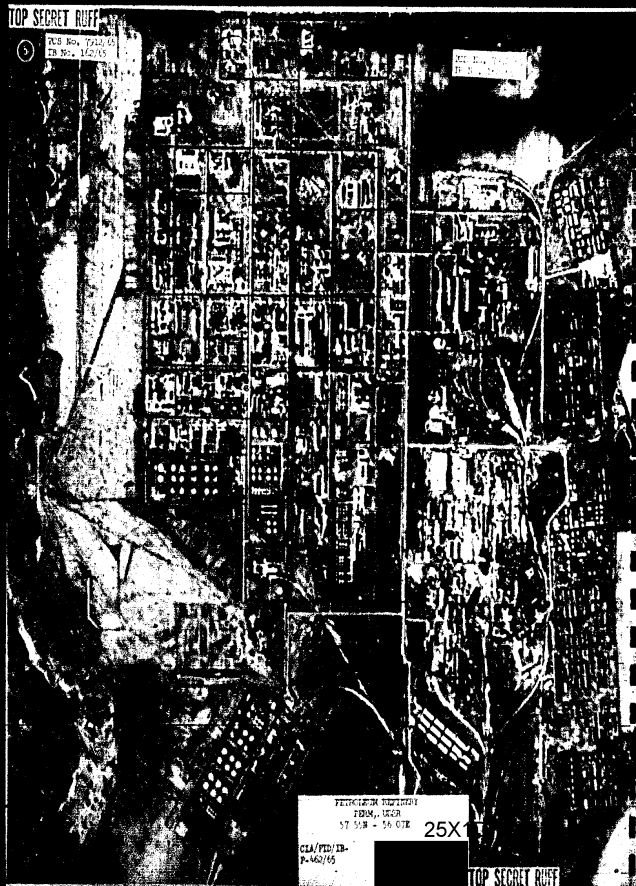




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